Thurs., 4/15/04

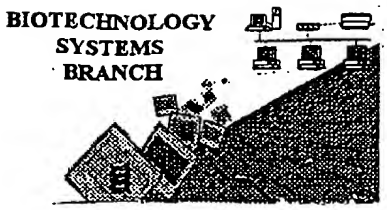
TO: Ms. Francine Young, PCT

FROM: Anne-Marie Corrigan, STIC

Ms. Young:

Per your request, enclosed is the error report for 09/856,451. Thank you.

Total: 9 pages includes cover sheet




# RAW SEQUENCE LISTING ERROR REPORT

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 09/856,451
Source: PCT/09
Date Processed by STIC: 4/14/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**
**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**
***Effective 12/13/03*: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
**http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to (EFFECTIVE 12/01/03):** U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

## Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 09/856,451 |
|---|---|---|

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

| | | |
|---|---|---|
| 1 | Wrapped Nucleics<br>Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 | Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3 | Misaligned Amino Numbering | The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. |
| 4 | Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5 | Variable Length | Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 | PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7 | Skipped Sequences (OLD RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8 | Skipped Sequences (NEW RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000 |
| 9 | Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10 | Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence |
| 11 | Use of <220> | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.<br>Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| 12 | PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 | Misuse of n/Xaa | "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid |

AMC – Biotechnology Systems Branch – 09/09/2003

PCT09

RAW SEQUENCE LISTING DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:47

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

pp 1, 34

Does Not Comply
Corrected Diskette Needed

Invalid <2137 response - See item 10 on Error Summary Sheet.

```
      3 <110> APPLICANT: Eli Lilly and Company
      4       Beals, John
      6 <120> TITLE OF INVENTION: ERYTHROPOIETIC COMPOUNDS
      8 <130> FILE REFERENCE: X-12553
     10 <140> CURRENT APPLICATION NUMBER: US 09/856,451
C--> 11 <141> CURRENT FILING DATE: 2003-01-09
     13 <150> PRIOR APPLICATION NUMBER: PCT/US99/27801
     14 <151> PRIOR FILING DATE: 1999-11-23
     16 <160> NUMBER OF SEQ ID NOS: 4
     18 <170> SOFTWARE: PatentIn version 3.0
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 168
     22 <212> TYPE: PRT
     23 <213> ORGANISM: synthetic construct
     25 <220> FEATURE:
     26 <221> NAME/KEY: VARIANT
     27 <222> LOCATION: (1)..(1)
     28 <223> OTHER INFORMATION: Xaa at position 1 is absent or Met;
     31 <220> FEATURE:
     32 <221> NAME/KEY: VARIANT
     33 <222> LOCATION: (2)..(2)
     34 <223> OTHER INFORMATION: Xaa at position 2 is absent or is Ala, Cys, Asp, Glu, Phe,
Gly, H
     35       is Ile, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, or Tyr
     38 <220> FEATURE:
     39 <221> NAME/KEY: VARIANT
     40 <222> LOCATION: (26)..(26)
     41 <223> OTHER INFORMATION: Xaa at position 26 is Asn, Lys or Glu;
     44 <220> FEATURE:
     45 <221> NAME/KEY: VARIANT
     46 <222> LOCATION: (40)..(40)
     47 <223> OTHER INFORMATION: Xaa at position 40 is Asn, Lys or Glu;
     50 <220> FEATURE:
     51 <221> NAME/KEY: VARIANT
     52 <222> LOCATION: (78)..(78)
     53 <223> OTHER INFORMATION: Xaa at position 78 is Arg or Glu;
     56 <220> FEATURE:
     57 <221> NAME/KEY: VARIANT
     58 <222> LOCATION: (85)..(85)
     59 <223> OTHER INFORMATION: Xaa at position 85 is Asn, Lys or Glu;
     62 <220> FEATURE:
     63 <221> NAME/KEY: VARIANT
     64 <222> LOCATION: (90)..(90)
     65 <223> OTHER INFORMATION: Xaa at position 90 is Trp, Lys, Pro, or Arg;
```

RAW SEQUENCE LISTING DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:47

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

```
     68 <220> FEATURE:
     69 <221> NAME/KEY: VARIANT
     70 <222> LOCATION: (128)..(128)
     71 <223> OTHER INFORMATION: Xaa at position 128 is Ser, Thr, Lys or Glu;
     74 <220> FEATURE:
     75 <221> NAME/KEY: VARIANT
     76 <222> LOCATION: (141)..(141)
     77 <223> OTHER INFORMATION: Xaa at position 141 is Arg or Glu;
     80 <220> FEATURE:
     81 <221> NAME/KEY: VARIANT
     82 <222> LOCATION: (156)..(156)
     83 <223> OTHER INFORMATION: Xaa at position 156 is Lys or Glu; and
     86 <220> FEATURE:
     87 <221> NAME/KEY: VARIANT
     88 <222> LOCATION: (168)..(168)
     89 <223> OTHER INFORMATION: Xaa at position 168 is Arg, absent, or any other amino acid.
     92 <400> SEQUENCE: 1
W--> 94 Xaa Xaa Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg
     95 1               5                  10                  15
     97 Tyr Leu Leu Glu Ala Lys Glu Ala Glu Xaa Ile Thr Thr Gly Cys Ala
     98             20                  25                  30
    100 Glu His Cys Ser Leu Asn Glu Xaa Ile Thr Val Pro Asp Thr Lys Val
    101         35                  40                  45
    103 Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu
    104     50                  55                  60
    106 Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Xaa Gly Gln
    107 65                  70                  75                  80
    109 Ala Leu Leu Val Xaa Ser Ser Gln Pro Xaa Glu Pro Leu Gln Leu His
    110                 85                  90                  95
    112 Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg
    113             100                 105                 110
    115 Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Xaa
    116         115                 120                 125
    118 Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Xaa Lys Leu Phe
    119     130                 135                 140
    121 Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Xaa Leu Tyr Thr Gly
    122 145                 150                 155                 160
    124 Glu Ala Cys Arg Thr Gly Asp Xaa
    125                 165
    127 <210> SEQ ID NO: 2
    128 <211> LENGTH: 193
    129 <212> TYPE: PRT
    130 <213> ORGANISM: Homo sapiens
    132 <400> SEQUENCE: 2
    134 Met Gly Val His Glu Cys Pro Ala Trp Leu Trp Leu Leu Leu Ser Leu
    135 1               5                  10                  15
    137 Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu
    138             20                  25                  30
    140 Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
```

RAW SEQUENCE LISTING DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:47

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

```
141          35                  40                  45
143 Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu
144      50                  55                  60
146 Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg
147 65                  70                  75                  80
149 Met Glu Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu
150                 85                  90                  95
152 Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser
153             100                 105                 110
155 Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly
156          115                 120                 125
158 Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu
159      130                 135                 140
161 Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile
162 145                 150                 155                 160
164 Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu
165                 165                 170                 175
167 Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp
168             180                 185                 190
170 Arg
173 <210> SEQ ID NO: 3
174 <211> LENGTH: 498
175 <212> TYPE: DNA
176 <213> ORGANISM: synthetic construct
178 <220> FEATURE:
179 <221> NAME/KEY: CDS
180 <222> LOCATION: (1)..(495)
182 <400> SEQUENCE: 3
183 gct cca cca cgt ctt att tgt gat tct cgt gtt ctt gaa cgt tac ctg       48
184 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
185 1               5                   10                  15
187 ctg gaa gct aaa gaa gct gaa aac atc acc acc ggt tgc gct gaa cac       96
188 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
189             20                  25                  30
191 tgc tcc ctg aac gaa aac atc acc gtt ccg gac acc aaa gtt aac ttc      144
192 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
193          35                  40                  45
195 tac gct tgg aaa cgt atg gaa gtt ggt cag cag gct gtt gaa gtt tgg      192
196 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
197      50                  55                  60
199 cag ggt ctg gct ctg ctg tcc gaa gct gtt ctg cgt ggt cag gct ctg      240
200 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
201 65                  70                  75                  80
203 ctg gtt aac tcc tcc cag ccg tgg gaa ccg ctg cag ctg cac gtt gac      288
204 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
205                 85                  90                  95
207 aaa gct gtt tcc ggt ctg cgt tcc ctg acc acc ctg ctg cgt gct ctg      336
208 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
209             100                 105                 110
```

invalid response

RAW SEQUENCE LISTING DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:47

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

```
211 ggt gct cag aaa gaa gct atc tcc ccg ccg gac gct gct tcc gct gct      384
212 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
213         115                 120                 125
215 ccg ctg cgt acc atc acc gct gac acc ttc cgt aaa ctg ttc cgt gtt      432
216 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
217     130                 135                 140
219 tac tcc aac ttc ctg cgt ggt aaa ctg aaa ctg tac acc ggt gaa gct      480
220 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
221 145                 150                 155                 160
223 tgc cgt acc ggt gac tga                                          498
224 Cys Arg Thr Gly Asp
225                 165
228 <210> SEQ ID NO: 4
229 <211> LENGTH: 165
230 <212> TYPE: PRT
231 <213> ORGANISM: synthetic construct
233 <400> SEQUENCE: 4
235 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
236 1               5                  10                  15
239 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
240             20                  25                  30
243 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
244         35                  40                  45
247 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
248     50                  55                  60
251 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
252 65                  70                  75                  80
255 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
256                 85                  90                  95
259 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
260             100                 105                 110
263 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
264         115                 120                 125
267 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
268     130                 135                 140
271 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
272 145                 150                 155                 160
275 Cys Arg Thr Gly Asp
276                 165
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:48

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,20,40,76,86,90,128,141,156,168


PAGE 8/9 * RCVD AT 4/15/2004 8:32:03 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7466713 * CSID:703 308 4221 * DURATION (mm-ss):03-36

VERIFICATION SUMMARY DATE: 04/14/2004
PATENT APPLICATION: US/09/856,451 TIME: 10:35:48

Input Set : A:\X-12553 Sequence Listing.txt
Output Set: N:\CRF4\04142004\I856451.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1


PAGE 9/9 * RCVD AT 4/15/2004 8:32:03 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7466713 * CSID:703 308 4221 * DURATION (mm-ss):03-36

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